

5' T T C G T G A A G C A C T C C A T G G C A T G T G T C A A T G C C T G T G C A C C T G G C T T C C

9	18	27	36	45	54
63	72	81	90	99	108
AAG ATA GAA GAG GCC CCA AGA CGC ATA CGG GAC GTC ATC AAT GTC TTT CAC CGC					
117	126	135	144	153	162
CTT CGA CAG CTG AGA GAC AAA TAA TCG TTA TGT ACC TTC AGG TGT TAG AGT					
171	180	189	198	207	216
GTG AGC GTA ACC AAC ACC TGG TCC AGA CCT CAT GGG TAG CCT CTG AGG GTA AGT					
225	234	243	252	261	270
GAC TAA GAC TTC TCC TCT GCT GTC CAA GCG CTT TGG TGC AGG GAC AGC GGC ATC					
279	288	297	306	315	324
TTC AGC CAA TCC AGT GCA GGC TCT CCA CCG AAG GCT GGC TCT AGA CTG GTG ACC					
333	342	351	360	369	378
CCT TGT TGA AAT GGG ACA GTT GGC AGC GGC TCT GAT GAG CCC GAG AAG AGG CCT					
387	396	405	414	423	432
GCC CTT GGG TGC GGA GTC TCC CTC CGC ACG ATG CTC CCA CGC GTC CAA CTT GCA					
441	450	459	468	477	486
CCC AAG GGG CTT CCT CTT CCA AGT GGA CTC CTT CAA GGA AGC TGC AGC TCG					

FIGURE 1A

495	GTC	AGC	AGA	GAA	GGG	GCC	TGC	CGC	CAG	CGC	CCT	GGA	GGA	AGA	GGA	AGA	GGA	ACC
549	CAA	GAG	GAT	GGC	TTG	TCT	CCC	AGC	AGC	CAC	ACC	GGC	TTT	GTG	CTC	AGC	CAG	TTC
603	ATT	TGA	GTT	TGC	ATG	TTT	CTC	TGC	ACT	ATG	GAT	TTT	GAG	CAT	TTA	GAT	TTC	TTT
657	AAT	CAA	AAG	CGT	TTT	AGT	GAC	TCC	AGT	AGA	CAT	TTT	CTT	TCT	GAG	GCA	TCG	TGC
711	TTT	GCA	TGA	GAG	CAG	GCC	AAG	GTT	GAG	GGG	AAA	AGT	AAA	GTT	AAA	GTC	GGT	TCT
765	CTT	TCA	TAG	CAA	CAC	GTA	TTG	TCT	GAC	ATT	CAG	CCA	GCT	TTT	TTT	TCT	AAT	
819	AAT	TTC	TGT	GCC	TTT	CTG	TCC	TGT	ATT	TAC	TGT	ATT	TAG	AAA	AAG	CAG	CTA	GAA
873	TAT	TTC	ATT	AAC	TCT	TGA	GAT	TCA	CAG	GAC	TGT	CTA	GCT	CTG	AGT	CCT	AGC	
927	AAT	AGA	CTC	CTT	AGA	GGA	GGA	GTA	CGT	TGA	TCT	AGA	TTT	TCT	CTA	GAT	AAT	GCA

FIGURE 1B

981	GGC	GGA	AGA	CCT	GGG	TTC	CCG	GGT	GGG	GCA	TTC	CAG	TTC	TTC	CTG	TGT	TGT	TTC	GCT	1008	999	990	981	1026
1035	TCC	AGG	AAT	TAC	ATG	AAC	GAC	AGC	CTT	CGC	ACC	GAC	GTC	TTC	GTG	CGG	TTC	CAG	1071	1062	1044	1035	1080	
P	E	S	I	A	C	A	C	I	Y	L	A	A	R	V	V	R	F	F	Q	M	N	D	S	1080
1089	CCA	GAG	AGC	ATC	GCC	TGT	GCC	TGC	ATT	TAT	CTT	GCT	GCC	CGG	ACG	CTG	GAG	ATC	1116	1107	1098	1089	1134	
P	L	P	N	R	P	H	W	F	L	L	F	G	A	T	R	T	L	E	I	P	E	S	I	1134
1143	CCT	TTG	CCC	AAT	CGT	CCC	CAT	TGG	TTT	CTT	TTG	TTT	GGA	GCA	ACT	GAA	GAA	GAA	1179	1170	1161	1143	1188	
P	L	P	N	R	P	H	W	F	L	L	F	G	A	T	E	E	E	E	I	P	L	P	I	1188
1197	ATT	CAG	GAA	ATC	TGC	TTA	AAG	ATC	TTG	CAG	CTT	TAT	GCT	CGG	AAA	AAG	GTT	GAT	1224	1215	1206	1197	1242	
I	Q	E	I	C	L	K	I	L	Q	L	Y	A	R	K	K	V	V	D	I	Q	E	I	C	1242
1251	CTC	ACA	CAC	CTG	GAG	GGT	GAA	GTG	GAA	AAA	AGA	AAG	CAC	GCT	ATC	GAA	GAG	GCA	1287	1278	1260	1251	1296	
L	T	H	L	E	G	E	V	E	K	R	K	H	A	I	E	E	E	A	I	Q	E	I	C	1296
1305	AAG	GCC	CAA	GCC	CGG	GGC	CTG	TTG	CCT	GGG	GGC	ACA	CAG	GTG	CTG	GAT	GGT	ACC	1341	1323	1314	1305	1350	
K	A	Q	A	R	G	L	L	P	G	G	T	Q	V	L	D	G	T	T	K	A	Q	A	R	1350

FIGURE 1C

1359	TCG GGG TTC TCT CCT GCC CCC AAG CTG GTG GAA TCC CCC AAA GAA GGT AAA GGG	1368	1377	1386	1395	1404
S G F	S P A P K L V E S P K E G K G					
1413	AGC AAG CCT TCC CCA CTG TCT GTG AAG AAC ACC AAG AGG CTG GAG GCC GGC	1422	1431	1440	1449	1458
S K P	S P L S V K N T K R R L E G A					
1467	AAG AAA GCC AAG GCG GAC AGC CCC GTG AAC GGC TTG CCA AAG GGG CGA GAG AGT	1476	1485	1494	1503	1512
K K A	K A D S P V N G L P K G R E S					
1521	CGG AGT CGG AGC CGG AGC CGT GAG CAG AGC TAC TCG AGG TCC CCA TCC CGA TCA	1530	1539	1548	1557	1566
R S R S R . S R E Q S Y S R S P S R S						
1575	GCG TCT CCT AAG AGG AGG AAA AGT GAC AGC GGC TCC ACA TCT GGT GGG TCC AAG	1584	1593	1602	1611	1620
A S P K R R K S D S G S T S G G S K						
1629	TCG CAG AGC CGC TCC CGG AGC AGG AGT GAC TCC CCA CCG AGA CAG GCC CCC CGC	1638	1647	1656	1665	1674
S Q S R S R S R D S P P R Q A P R						
1683	AGC GCT CCC TAC AAA GGC TCT GAG ATT CGG GGC TCC CGG AAG TCC AAG GAC TGC	1692	1701	1710	1719	1728
S A P Y K G S E I R G S R K S K D C						

FIGURE 1D

AAG	TAC	CCC	CAG	AAG	CCA	CAC	AAG	TCT	CGG	AGC	CGG	AGT	TCT	TCC	CGT	TCT	CGA	1737	1746	1755	1764	1773	1782		
K	Y	P	Q	K	P	H	K	S	R	S	R	S	R	S	S	R	S								
S	R	S	R	E	R	A	D	N	P	G	K	Y	K	K	K	S	H	1791	1800	1809	1818	1827	1836		
TAC	TAC	TCA	CGG	GAG	CGG	CGG	GAT	AAT	CCG	GGA	AAA	TAC	AAG	AAG	AAA	AGT	CAT	1845	1854	1863	1872	1881	1890		
Y	Y	R	D	Q	R	R	E	R	S	R	S	Y	E	R	T	G	R								
CGC	TAT	GAG	CGG	GAC	CAC	CCT	GGG	CAC	AGC	AGG	CAT	CGG	AGG	TGA	GGA	CGC	ACA	GGC	CGT	1899	1908	1917	1926	1935	1944
R	Y	E	R	D	H	P	G	H	S	R	H	R	R	R	R	R	R								
GCA	GTG	ACT	GGT	GGC	CGC	AAG	CCC	TTC	CCT	GGG	GAG	TAC	CTG	ATG	GCT	GCC	GGG	GTT	1953	1962	1971	1980	1989	1998	
TGA	CCC	CCG	GTG	GCT	GCC	CTT	TGA	CCC	CCG	GGT	GTG	CTC	TCA	GCG	CAA	GTG	GTC	2007	2016	2025	2034	2043	2052		
CTA	GAA	CAG	GAT	TCT	TTT	TGG	AAA	TGT	CTG	TCT	ACT	GGA	CCT	TGG	TGG	ATT	TGG	2061	2070	2079	2088	2097	2106		
AAA	TGG	AAC	TGA	GGG	ACC	GGT	GAC	ACG	TGC	TTC	AGA	CCG	GTC	TGG	GGT	GCG	GCG	2115	2124	2133	2142	2151	2160		

FIGURE 1E

2169	2178	2187	2196	2205	2214
CAC ACC TGG GCC CGT GCA GGG CTC AGC TCG GCA GCA GCT CTG AGG GCA GCT CAA					
2223	2232	2241	2250	2259	2268
TGA AAA AGT GAA TGC ACA CGC CCT TGT TGG CGT GGC CTG GCA TGG CCT GGT GCT					
2277	2286	2295	2304	2313	2322
ATC GGC AGC CGC TCT CCA CTC CCC GAC TGA TAC TCA ATT ACG TGA AGC CAA GAA					
2331	2340	2349	2358	2367	2376
AGA TGA TTT TTA GAA CCT TTG CCT ATA TTA GGT TGT ACT TAT GTA CAT ATT TTG					
2385	2394	2403	2412	2421	2430
CAG TGT TTC ACA GGA GAA AGT GGC CTT AAC TGC CCC TTA TTC TCT CTC CAC GTT					
2439	2448	2457	2466	2475	2484
GTA AAT AAA CAT GTG TTT AAT ACA AGT TAA AGC TAT GTA TGA AAA CTC AGA ACT					
2493	2502	2511	2520	2529	2538
TGA ATC CCG TCA GCT TAA AAC TTG TGT AGG GAA TCC TGA CTT TTA AAA TGT GAG					
2547	2556	2565	2574	2583	2592
GGT ATT TGG ATC TGT GTT GAA AGT CGT ATA TTT TTA TCT GTG CGG TGC TGA GTG					
2601	2610	2619	2628	2637	2646
CAG GCC ACC AGC TCC TAA ATA GAG GTT CCC TAT ATG CGC GTA TGA CAT GGT GAA					

FIGURE 1F

TAA	ACA	CAA	CTC	TCT	CCA	CTC	AGG	ACA	TCC	GGA	GCG	T <sup>TA</sup>	TGG	ACG	TGG	TAG	GTC
2655		2664			2673				2682			2691					2700
2709		2718			2727			2736			2745					2754	
CTT	CCG	GGC	TCC	TTC	CCT	GCT	GTA	CTG	AAG	TTT	TGG	ATT	TTG	CAT	CCA	CGC	CCA
2763		2772			2781			2790			2799					2808	
CTG	TGT	GCC	TGC	TTG	CTC	CCT	GCT	GCT	TGT	GAG	GCC	CCT	GAG	TCC	TCT	GCC	CAT
2817		2826			2835			2844			2853					2862	
CAG	GAT	GAC	AGG	CTC	CTT	CCT	GCA	GAA	GCT	TGT	GAG	GGG	CCT	GAG	TCC	TCT	GCC
2871		2880			2889			2898			2907					2916	
GAA	TCA	TTC	CAA	GGT	GCT	CTC	GTT	CCT	GAG	GCA	TAG	GAG	GCA	AGT	TTT	GGA	AAC
2925		2934			2943			2952			2961					2970	
ATC	TGT	GGG	CGA	GAG	AGG	CAG	CTG	GGA	GCA	GGA	CAC	TGG	TTT	GTA	ACC	CAT	GAC
2979		2988			2997			3006			3015					3024	
GGG	GTG	GCA	CCT	GCA	CTC	TGA	GTG	CCC	CCC	ACT	GTC	ATC	AGC	TGC	CTC	TTA	CCG
3033		3042			3051			3060			3069					3078	
TGG	ACA	CAG	TTT	TGG	TTT	TGG	TTT	TGG	TTT	TGG	TTT	TGG	GGC	CCC	ACT	CCT	GGT
3087		3096			3105			3114			3123					3132	

FIGURE 1G

3141 3150 3159 3168 3177 3186  
 TGG ACT TAC TAG GGC AGT GGG ACA TAT AGG CCG GGG CTA GTG GGA TAA CGG GGA  
  
 3195 3204 3213 3222 3231 3240  
 GTT ACG CCT GAT GAC TTT TGT GAT GGA ATC CTG CAT TAG ATA GCT GGT GGG ACC  
  
 3249 3258 3267 3276 3285 3294  
 CCC CCC TCA GAA TTG GGG AAC TGA GGA GAC TCC AGG GAG GGT GTC CTT CCA GGG  
  
 3303 3312 3321 3330 3339 3348  
 AGA GCA GCT ATG AGG GGC CCC CTA GCT TCC TGT GCC TGG AAG TAA GAG AAC CAG  
  
 3357 3366 3375 3384 3393 3402  
 TAA AGG GCC ATA CAC ACC TGT ACC CAA GAG ACC GCT CTC CAT TTG CTT TCT TTG  
  
 3411 3420 3429 3438 3447 3456  
 TTT ACT AAA TAA TTG TAA ATT ATT ATG ACA TAA AGA ACC ATT TAA GGC CAA  
  
 AAA AAA AA 3

FIGURE 1H

5'	GCCT	CCC	TGT	CCC	CCG	ACC	CTC	TTT	TGA	TGC	CTC	AGC	AAG	TGA	AGA	GGA	GGA	AGA	55
	10	19	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28
	64	64	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73
	AGA	GGA	GGA	GGA	GGA	GGA	TGA	AGA	TGA	AGA	TGA	AGA	GGA						
	118	118	127	127	127	127	127	127	127	127	127	127	127	127	127	127	127	127	127
	GCC	CCC	AAG	ATG	GAG	TCA	GCT	GGG	AAC	CTC	CCA	GCG	GCC	CCG	CCC	TTC	CCC	TTC	CCC
	172	172	181	181	181	181	181	181	181	181	181	181	181	181	181	181	181	181	181
	CAC	TCA	TCG	AAA	AAC	CTG	CTC	ACA	GCG	CCG	CCG	CCG	AGC	CAT	GAG	AGC	CAT	GAG	AGC
	226	226	235	235	235	235	235	235	235	235	235	235	235	235	235	235	235	235	235
	GAT	GCT	GCT	CTA	CTC	AAA	AAG	CAC	CTC	GCT	GAC	ATT	CCA	CTG	GAA	GCT	TTC	GGG	217
	280	280	289	289	289	289	289	289	289	289	289	289	289	289	289	289	289	289	289
	GCG	CCA	CCG	GGG	CCG	GCG	GCG	GGG	GGG	CCT	CGC	ACA	CCC	CAA	GAA	CCA	TCT	TTC	ACC
	334	334	343	343	343	343	343	343	343	343	343	343	343	343	343	343	343	343	343
	CCA	GCA	AGG	GGG	TGC	GAC	GCC	ACA	GGT	GCC	ATC	CCC	CTG	TTG	TCG	TTT	TGA	CTC	325
	388	388	397	397	397	397	397	397	397	397	397	397	397	397	397	397	397	397	397
	CCC	CCG	GGG	GCC	ACC	TCC	ACC	CCG	GCT	GGG	TCT	GCT	AGG	TGC	TCT	CAT	GGC	TGA	379
	442	442	451	451	451	451	451	451	451	451	451	451	451	451	451	451	451	451	451
	GGA	TGG	GGT	GAG	AGG	GTC	TCC	ACC	AGT	GCC	CTC	TGG	GCC	CCC	CAT	GGA	GGA	GGA	487

FIGURE 2A

TGG	ACT	CAG	GTG	GAC	TCC	AAA	GTC	TCC	TCT	GGA	CCC	TGA	CTC	GGG	CCT	CCT	532	541
496		505		514		523		532		541								
550		559		568		577		586		595								
ATG	TAC	TCT	GCC	CAA	CGG	TTT	TGG	GGG	ACA	ATC	TGG	GCC	AGA	AGG	GGA	GCG	CAC	
M	Y	S	A	Q	R	F	W	G	T	I	W	A	R	R	G	A	H	
604		613		622		631		640		649								
TTG	GCA	CCC	CCT	GAT	GCC	AGC	ATC	CTC	ATC	AGC	AAT	GTG	TGC	AGC	ATC	GGG	GAC	
L	A	P	P	D	A	S	I	L	I	S	N	V	C	S	I	G	D	
658		667		676		685		694		703								
CAT	GTG	GCC	CAG	GAG	CTT	TTT	CAG	GGC	TCA	GAT	TTG	GGC	ATG	GCA	GAA	GAG	GCA	
H	V	A	Q	E	L	F	Q	G	S	D	L	G	M	A	E	E	A	
712		721		730		739		748		757								
GAG	AGG	CCT	GGG	GAG	AAA	GCC	GGC	CAG	CAC	AGC	CCC	CTG	CGA	GAG	GAG	CAT	GTG	
E	R	P	G	E	K	A	G	Q	H	S	P	L	R	E	E	H	V	
766		775		784		793		802		811								
ACC	TGC	GTA	CAG	AGC	ATC	TTG	GAC	GAA	TTC	CIT	CAA	ACG	TAT	GGC	AGC	CTC	ATA	
T	C	V	Q	S	I	L	D	E	F	L	Q	T	Y	G	S	L	I	
820		829		838		847		856		865								
CCC	CTC	AGC	ACT	GAT	GAG	GTA	GAG	AAG	CTG	GAC	ATT	TTC	CAG	CAG	GAG			
P	L	S	T	D	E	V	V	E	K	L	E	D	I	F	Q	Q	E	

FIGURE 2B

F	S	T	P	S	R	K	G	L	V	L	Q	L	I	Q	S	Y	Q
R	M	P	G	N	A	M	V	R	G	F	R	V	A	Y	K	R	H
V	L	T	M	D	D	L	G	T	L	Y	G	Q	N	W	L	N	D
Q	V	M	N	M	Y	G	D	L	V	M	D	T	V	P	E	K	V
CAT	TTC	AAT	AGT	TTC	TTC	TAT	GAT	AAA	CTC	CGT	ATG	GAC	ACA	GTC	CCT	GAA	AAG
H	F	N	S	F	F	Y	D	K	L	R	T	K	G	Y	D	G	
GTG	AAA	AGG	TGG	ACC	AAA	AAC	GTG	GAC	ATC	TTC	AAT	AAG	GAG	CTA	CTG	CTA	ATC
V	K	R	W	T	K	N	V	D	I	F	N	K	E	L	L	L	I
CCC	ATC	CAC	CTG	GAG	GAG	GTG	CAT	TGG	TCC	CTC	ATC	TCT	GTT	GAT	GTG	AGG	CGA
P	I	H	L	E	V	H	W	S	L	I	S	V	D	V	R	R	R

FIGURE 2C

1297	1270	1279	1288
ACC ATC ACC TAT TTT GAC TCG CAG CGT ACC CTA AAC CGC CGC TGC CCT AAG CAT			
T I T Y F D S Q R T L N R R C P K H			
1306 1315 1324 1333 1342 1351			
ATT GCC AAG TAT CTA CAG GCA GAG GCG GTA AAG AAA GAC CGA CTG GAT TTC CAC			
I A K Y L Q A E V K D R L D F H			
1360 1369 1378 1387 1396 1405			
CAG GGC TGG AAA GGT TAC TTC AAA ATG AAT GTG GCC AGG CAG AAT AAT GAC AGT			
Q G W K G Y F K M N V A R Q N N D S			
1414 1423 1432 1441 1450 1459			
GAC TGT GGT GCT TTT GTG TTG CAG TAC TGC AAG CAT CTG GCC CTG TCT CAG CCA			
D C G A F V L Q Y C K H L A L S Q P			
1468 1477 1486 1495 1504 1513			
TTC AGC TTC ACC CAG CAG GAC ATG CCC AAA CTT CGT CGG CAG ATC TAC AAG GAG			
F S F T Q Q D M P K L R R Q I Y K E			
1522 1531 1540 1549 1558 1567			
CTG TGT CAC TGC AAA CTC ACT GTG TGA GCC TCG TAC CCC AGA CCC CAA GCC CAT			
L C H C K L T V			
1576 1585 1594 1603 1612 1621			
AAA TGG GAA GGG AGA CAT GGG AGT CCC TTC CCA AGA AAC TCC AGT TCC TTT CCT			

FIGURE 2D

1630	1639	1648	1657	1666	1675												
CTC	TTG	CCT	CTT	CCC	ACT	CAC	TTC	CCT	TTG	GTT	TTT	CAT	ATT	TAA	ATG	TTT	CAA
1684	1693		1702		1711		1720		1729								
TTT	CTG	TAT	TTT	TTC	TTT	GAG	AGA	ATA	CTT	GTT	GAT	TTC	TGA	TGT	GCA	GCG	
1738	1747		1756		1765		1774		1783								
GGT	GGC	TAC	AGA	AAA	GCC	CCT	TTC	TTC	CTC	TGT	TTC	CAG	GGG	AGT	GTG	GCC	CTG
1792	1801		1810		1819		1828		1837								
TGG	CCT	GGG	TGG	AGC	AGT	CAT	CCT	CCC	CCT	TCC	CCG	TGG	AGG	GAG	CAG	GAA	ATC
1846	1855		1864		1873		1882		1891								
AGT	GCT	GGG	GGT	GGG	GGG	ACA	ATA	GGA	TCA	CTG	CCT	GCC	AGA	TCT	TCA	AAC	
1900	1909		1918		1927		1936		1945								
TTT	TAT	ATA	TAT	ATA	TAT	ATA	TAT	ATA	TAT	ATA	TAT	ATA	TAT	ATA	TAT	ATA	TAT
1954	1963		1972		1981		1990										
ATA	TAA	ATA	TAT	AAA	TGC	CAC	GGT	CCT	GCT	CTG	GTC	AAT	AAA	GAT	C	3'	

FIGURE 2E

137	<u>L</u> E <u>G</u> A <u>K</u> K <u>A</u> <u>K</u> <u>A</u> <u>D</u> <u>S</u> <u>P</u> <u>V</u> <u>N</u> <u>G</u> <u>L</u> <u>P</u> <u>K</u> <u>G</u> <u>R</u> <u>E</u> <u>S</u> <u>R</u> <u>S</u> <u>R</u> <u>E</u> <u>M</u> <u>E</u> <u>G</u> <u>P</u> <u>K</u> <u>K</u> <u>A</u> <u>Q</u> <u>G</u> <u>H</u> <u>S</u> <u>P</u> <u>V</u> <u>N</u> <u>G</u> <u>L</u> <u>L</u> <u>K</u> <u>G</u> <u>Q</u> <u>E</u> <u>S</u> <u>R</u> <u>S</u> <u>Q</u>	1281694 GI 1276645
167	<u>Q</u> <u>S</u> <u>Y</u> <u>S</u> <u>R</u> <u>S</u> <u>P</u> <u>S</u> <u>R</u> <u>S</u> <u>A</u> <u>S</u> <u>P</u> <u>K</u> <u>R</u> <u>R</u> <u>K</u> <u>S</u> <u>D</u> <u>S</u> <u>G</u> <u>S</u> <u>T</u> <u>S</u> <u>G</u> <u>G</u> <u>S</u> <u>K</u> <u>S</u> <u>Q</u> <u>Q</u> <u>S</u> <u>Y</u> <u>S</u> <u>R</u> <u>S</u> <u>P</u> <u>S</u> <u>R</u> <u>S</u> <u>A</u> <u>S</u> <u>P</u> <u>K</u> <u>R</u> <u>R</u> <u>K</u> <u>S</u> <u>D</u> <u>S</u> <u>G</u> <u>S</u> <u>T</u> <u>S</u> <u>G</u> <u>G</u> <u>S</u> <u>K</u> <u>S</u> <u>Q</u>	1281694 GI 1276645
197	<u>S</u> <u>R</u> <u>S</u> <u>R</u> <u>S</u> <u>D</u> <u>S</u> <u>P</u> <u>P</u> <u>R</u> <u>Q</u> <u>A</u> <u>P</u> <u>R</u> <u>S</u> <u>A</u> <u>P</u> <u>Y</u> <u>K</u> <u>G</u> <u>S</u> <u>E</u> <u>I</u> <u>R</u> <u>G</u> <u>S</u> <u>R</u> <u>K</u> <u>S</u> <u>R</u> <u>S</u> <u>R</u> <u>S</u> <u>D</u> <u>S</u> <u>P</u> <u>P</u> <u>R</u> <u>Q</u> <u>V</u> <u>H</u> <u>R</u> <u>G</u> <u>A</u> <u>P</u> <u>Y</u> <u>K</u> <u>G</u> <u>S</u> <u>E</u> <u>V</u> <u>R</u> <u>G</u> <u>S</u> <u>R</u> <u>K</u>	1281694 GI 1276645
227	<u>S</u> <u>K</u> <u>D</u> <u>C</u> <u>K</u> <u>Y</u> <u>-</u> <u>P</u> <u>Q</u> <u>K</u> <u>P</u> <u>H</u> <u>K</u> <u>S</u> <u>R</u> <u>S</u> <u>R</u> <u>S</u> <u>S</u> <u>R</u> <u>S</u> <u>R</u> <u>S</u> <u>R</u> <u>E</u> <u>R</u> <u>A</u> <u>S</u> <u>K</u> <u>D</u> <u>C</u> <u>K</u> <u>Y</u> <u>L</u> <u>T</u> <u>Q</u> <u>K</u> <u>P</u> <u>H</u> <u>K</u> <u>S</u> <u>R</u> <u>S</u> <u>R</u> <u>S</u> <u>R</u> <u>S</u> <u>R</u> <u>E</u> <u>R</u> <u>T</u>	1281694 GI 1276645
256	<u>D</u> <u>N</u> <u>P</u> <u>G</u> <u>K</u> <u>Y</u> <u>K</u> <u>K</u> <u>S</u> <u>H</u> <u>Y</u> <u>Y</u> <u>R</u> <u>D</u> <u>Q</u> <u>R</u> <u>E</u> <u>R</u> <u>S</u> <u>R</u> <u>S</u> <u>Y</u> <u>E</u> <u>R</u> <u>T</u> <u>G</u> <u>R</u> <u>R</u> <u>D</u> <u>N</u> <u>S</u> <u>G</u> <u>K</u> <u>Y</u> <u>K</u> <u>K</u> <u>S</u> <u>H</u> <u>Y</u> <u>Y</u> <u>R</u> <u>D</u> <u>Q</u> <u>R</u> <u>E</u> <u>R</u> <u>S</u> <u>R</u> <u>S</u> <u>Y</u> <u>E</u> <u>R</u> <u>T</u> <u>G</u> <u>H</u> <u>R</u>	1281694 GI 1276645
286	<u>Y</u> <u>E</u> <u>R</u> <u>D</u> <u>H</u> <u>P</u> <u>G</u> <u>H</u> <u>S</u> <u>R</u> <u>H</u> <u>R</u> <u>R</u> <u>Y</u> <u>E</u> <u>R</u> <u>D</u> <u>H</u> <u>P</u> <u>G</u> <u>H</u> <u>S</u> <u>R</u> <u>H</u> <u>R</u> <u>R</u>	1281694 GI 1276645
298		1281694
181	L A S V A L	GI 1276645

FIGURE 3